Performance Data Sheet

AWG5530EXN

General Information

Model	AWG5530EXN	**Refrigerant**	R-22
Test Condition	ARI	**Performance Test Voltage**	230V ~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	8070	6970					
	Watts	1400	1410					
	Amps	7.61	7.84					
	Lb/h	104	93.8					
-10	Btu/h	9890	8730	7660				
	Watts	1500	1530	1550				
	Amps	7.92	8.19	8.35				
	Lb/h	127	116	107				
-5	Btu/h	11900	10600	9480	8410			
	Watts	1590	1640	1670	1690			
	Amps	8.23	8.54	8.75	8.86			
	Lb/h	151	141	131	122			
0	Btu/h	14000	12700	11400	10300	9130		
	Watts	1680	1740	1790	1830	1850		
	Amps	8.53	8.89	9.15	9.32	9.40		
	Lb/h	177	166	157	147	137		
5	Btu/h	16300	14900	13500	12300	11000		
	Watts	1760	1830	1900	1950	1990		
	Amps	8.84	9.23	9.54	9.77	9.92		
	Lb/h	204	194	184	174	164		
10	Btu/h	18700	17200	15800	14400	13100	11700	10300
	Watts	1840	1920	2000	2070	2130	2180	2200
	Amps	9.13	9.57	9.93	10.2	10.4	10.6	10.6
	Lb/h	234	223	213	203	192	181	167
15	Btu/h	21400	19800	18200	16700	15200	13700	12200
	Watts	1910	2010	2100	2190	2260	2320	2370
	Amps	9.42	9.90	10.3	10.6	10.9	11.2	11.3
	Lb/h	265	255	244	234	223	211	197
20	Btu/h	24200	22500	20800	19200	17600	16000	14300
	Watts	1970	2090	2190	2300	2390	2470	2530
	Amps	9.71	10.2	10.7	11.1	11.4	11.7	12.0
	Lb/h	298	288	277	267	255	243	228

25	Btu/h	27200	25400	23600	21900	20100	18300	16500
	Watts	2040	2160	2280	2400	2510	2600	2680
	Amps	9.98	10.5	11.0	11.5	11.9	12.3	12.6
	Lb/h	334	323	313	302	290	277	262
30	Btu/h	30500	28600	26700	24800	22900	20900	18900
	Watts	2100	2230	2370	2500	2620	2730	2830
	Amps	10.2	10.8	11.4	11.9	12.4	12.8	13.2
	Lb/h	372	361	350	339	327	314	298
35	Btu/h	34000	31900	29900	27800	25800	23700	21500
	Watts	2150	2300	2440	2590	2730	2860	2970
	Amps	10.5	11.1	11.7	12.3	12.8	13.3	13.8
	Lb/h	412	401	390	379	366	352	336
40	Btu/h	37800	35500	33300	31100	28900	26600	24200
	Watts	2200	2360	2520	2680	2830	2980	3110
	Amps	10.7	11.4	12.0	12.6	13.2	13.8	14.4
	Lb/h	455	444	433	421	408	394	377
45	Btu/h	41800	39400	37000	34700	32300	29800	27200
	Watts	2250	2420	2590	2760	2930	3090	3240
	Amps	10.9	11.6	12.3	13.0	13.6	14.3	15.0
	Lb/h	500	489	478	466	453	438	421
50	Btu/h	46000	43500	41000	38500	35900	33200	30400
	Watts	2300	2480	2660	2850	3030	3200	3370
	Amps	11.1	11.8	12.5	13.3	14.0	14.8	15.5
	Lb/h	548	537	526	514	500	485	467
55	Btu/h	50600	47900	45200	42500	39700	36800	33900
	Watts	2350	2530	2730	2920	3120	3310	3490
	Amps	11.3	12.0	12.8	13.6	14.4	15.2	16.0
	Lb/h	599	588	577	564	550	534	516

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	3.077298E+04	1.331490E+03	2.246849E+00	3.419665E+02
C2	5.123261E+02	2.238730E+00	6.840753E-02	4.735307E+00
C3	-3.116114E+02	-7.478225E-01	1.177754E-01	-3.586371E+00
C4	4.565987E+00	-4.884939E-02	3.434172E-05	3.519833E-02
C5	-2.744251E-01	9.093671E-02	-8.808268E-04	1.498448E-02
C6	1.622231E+00	1.068787E-01	-4.998705E-04	2.575698E-02
C7	1.511150E-02	5.422858E-04	-2.492524E-06	1.530000E-04
C8	-1.593535E-02	-8.339924E-04	-1.323525E-06	-1.045111E-05
C9	-7.999993E-03	1.141977E-03	9.856152E-06	-9.397779E-05
C10	-4.402672E-03	-5.383100E-04	1.251975E-07	-8.418590E-05

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature